FIG. 1

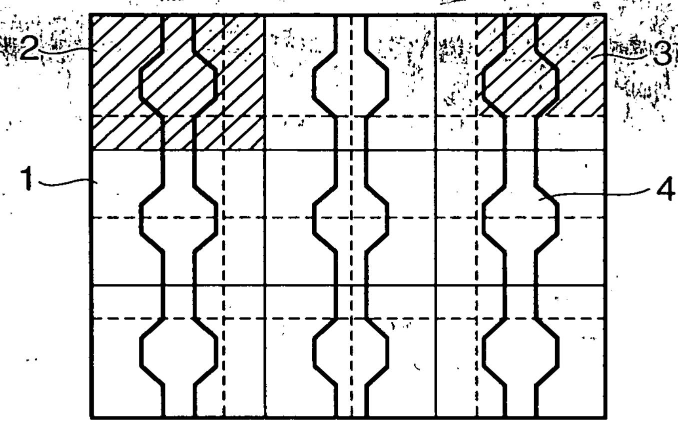

FIG. 2A

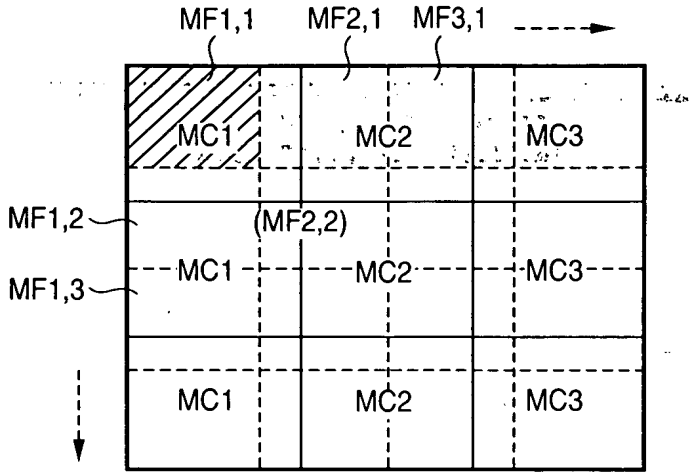

FIG. 2B

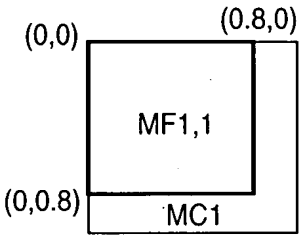

FIG. 2C

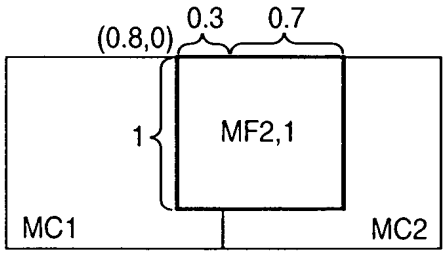

FIG. 2D

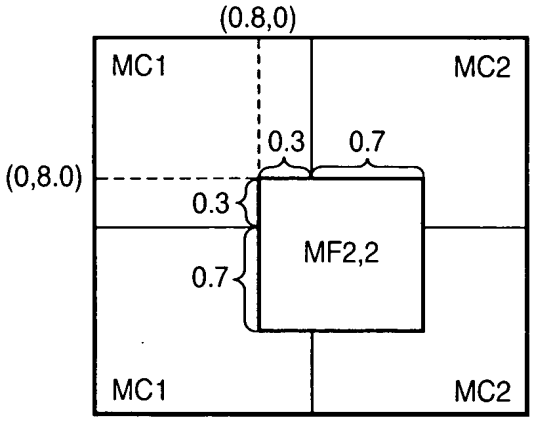

FIG. 2E

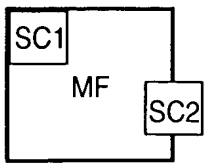

FIG. 3A

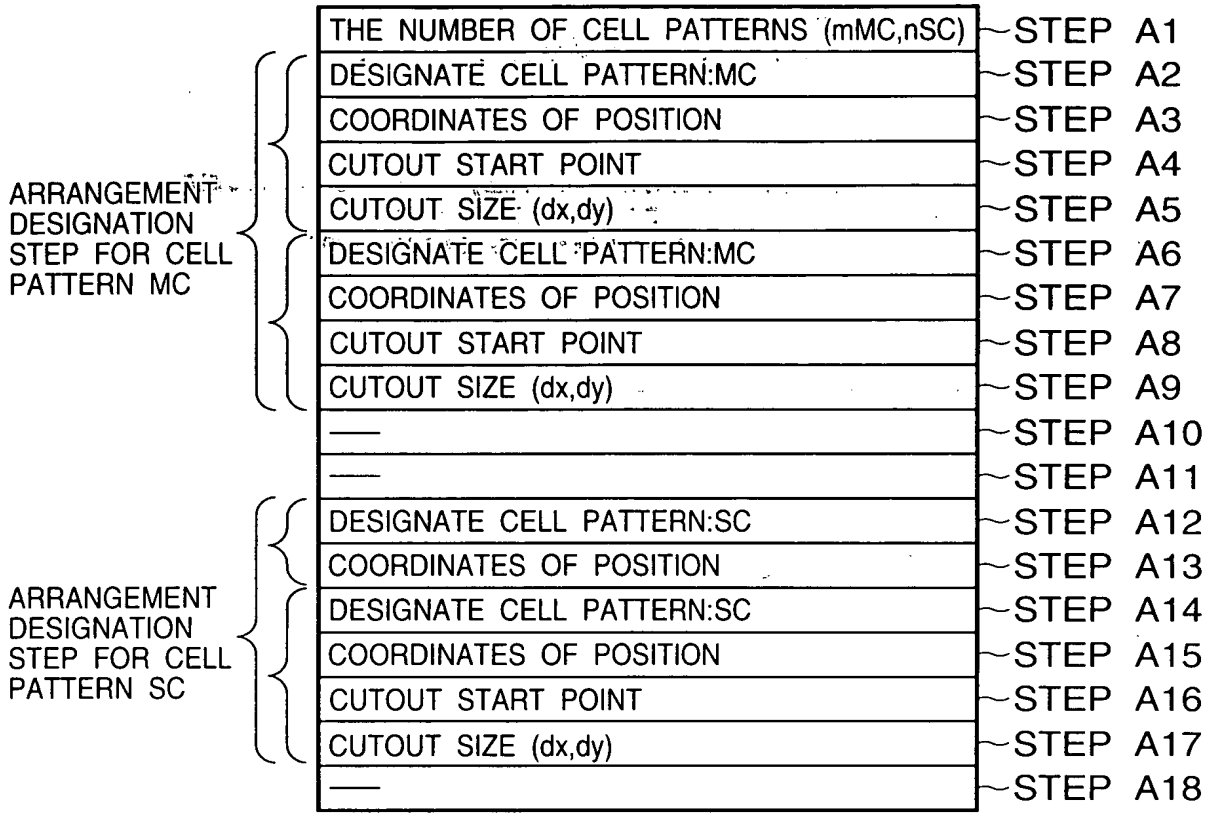
THE NUMBER OF CELL PATTERNS (mMC,nSC)
STEP A1
ARRANGEMENT DESIGNATION STEP FOR CELL PATTERN MC
DESIGNATE CELL PATTERN:MC
STEP A2
COORDINATES OF POSITION
STEP A3
CUTOUT START POINT
STEP A4
CUTOUT SIZE (dx,dy)
STEP A5
DESIGNATE CELL PATTERN:MC
STEP A6
COORDINATES OF POSITION
STEP A7
CUTOUT START POINT
STEP A8
CUTOUT SIZE (dx,dy)
STEP A9
—
STEP A10
—
STEP A11
ARRANGEMENT DESIGNATION STEP FOR CELL PATTERN SC
DESIGNATE CELL PATTERN:SC
STEP A12
COORDINATES OF POSITION
STEP A13
DESIGNATE CELL PATTERN:SC
STEP A14
COORDINATES OF POSITION
STEP A15
CUTOUT START POINT
STEP A16
CUTOUT SIZE (dx,dy)
STEP A17
—
STEP A18

FIG. 3B

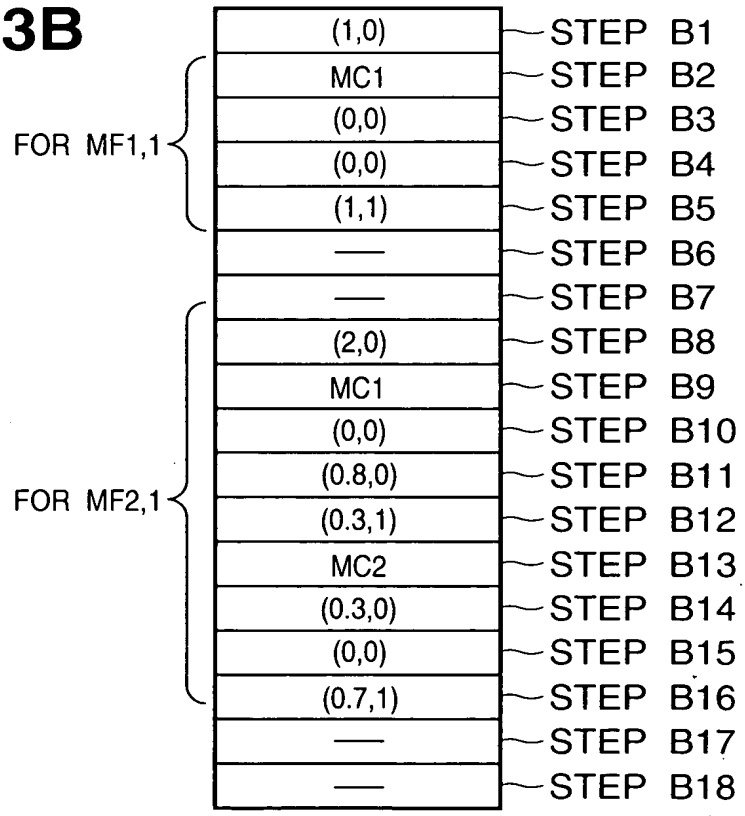
(1,0)
STEP B1
FOR MF1,1
MC1
STEP B2
(0,0)
STEP B3
(0,0)
STEP B4
(1,1)
STEP B5
—
STEP B6
—
STEP B7
FOR MF2,1
(2,0)
STEP B8
MC1
STEP B9
(0,0)
STEP B10
(0.8,0)
STEP B11
(0.3,1)
STEP B12
MC2
STEP B13
(0.3,0)
STEP B14
(0,0)
STEP B15
(0.7,1)
STEP B16
—
STEP B17
—
STEP B18

FIG. 4

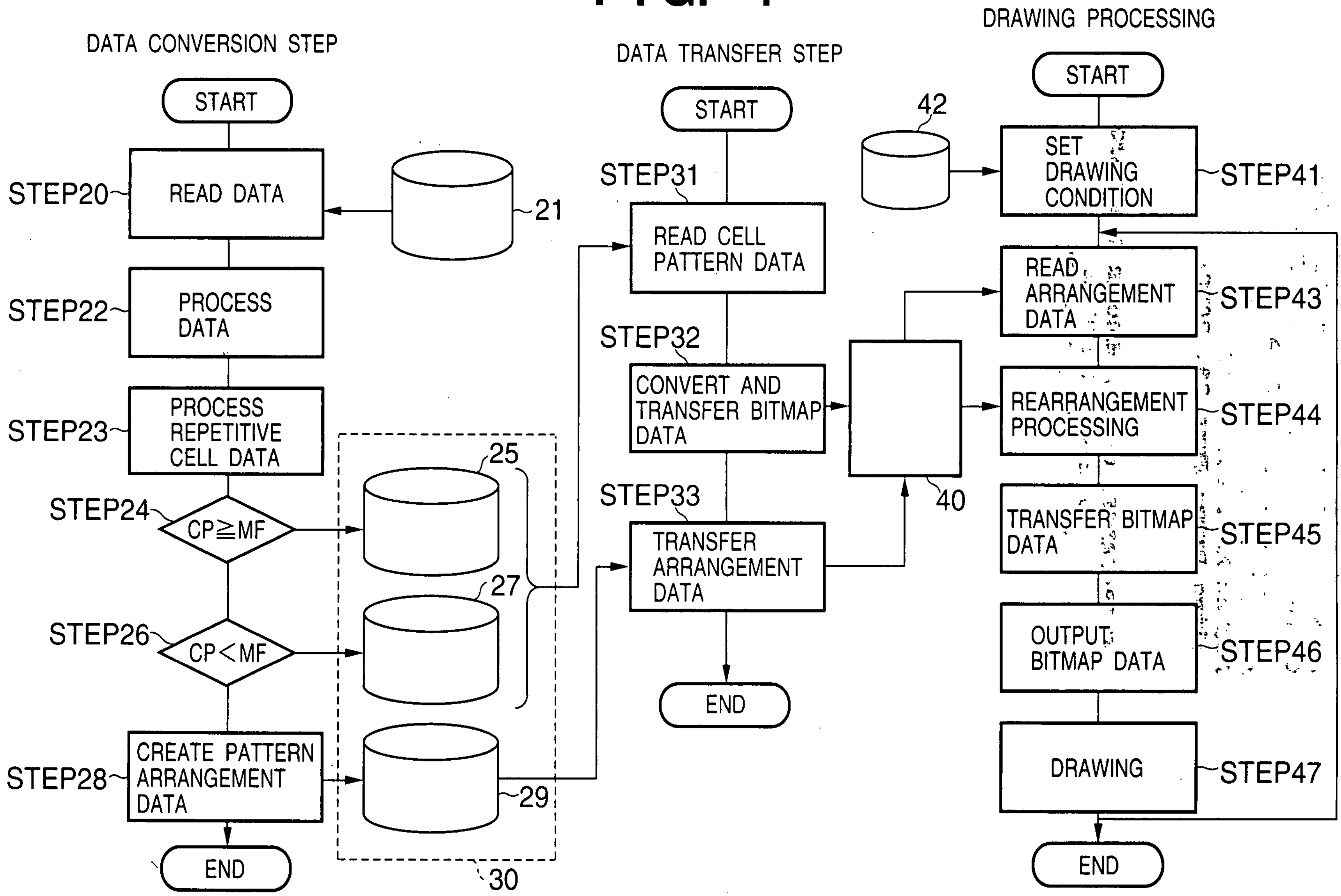
DATA CONVERSION STEP
START
STEP20
READ DATA
21
STEP22
PROCESS DATA
STEP23
PROCESS REPETITIVE CELL DATA
STEP24
CP≧MF
STEP26
CP<MF
STEP28
CREATE PATTERN ARRANGEMENT DATA
END
25
27
29
30
DATA TRANSFER STEP
START
STEP31
READ CELL PATTERN DATA
STEP32
CONVERT AND TRANSFER BITMAP DATA
STEP33
TRANSFER ARRANGEMENT DATA
END
40
42
DRAWING PROCESSING
START
SET DRAWING CONDITION
STEP41
READ ARRANGEMENT DATA
STEP43
REARRANGEMENT PROCESSING
STEP44
TRANSFER BITMAP DATA
STEP45
OUTPUT BITMAP DATA
STEP46
DRAWING
STEP47
END

FIG. 5A

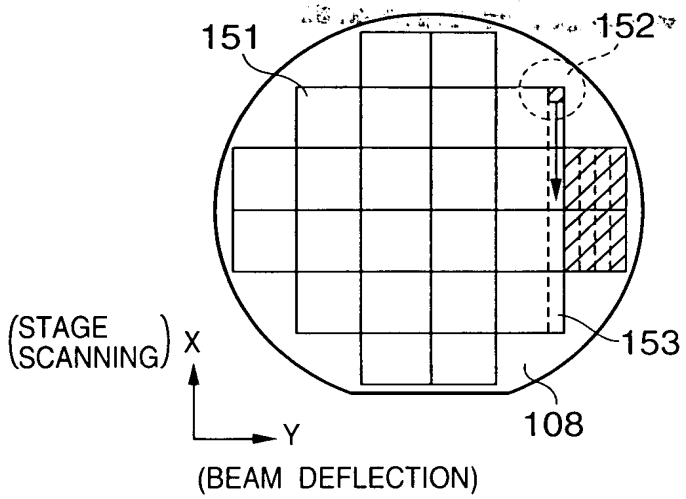

FIG. 5B

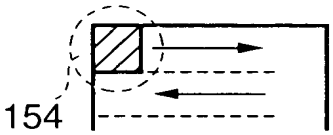

FIG. 5C

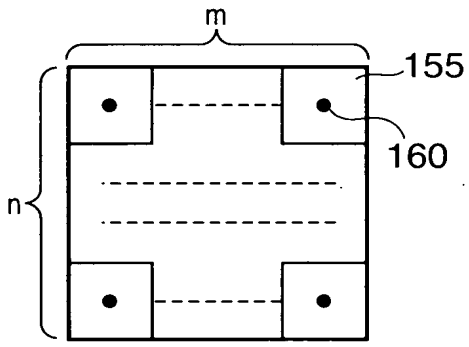

FIG. 5D

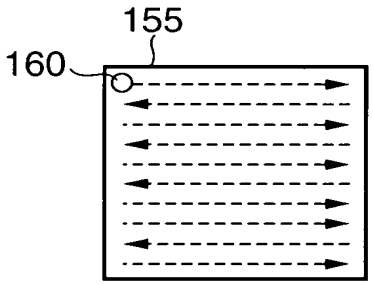

FIG. 6

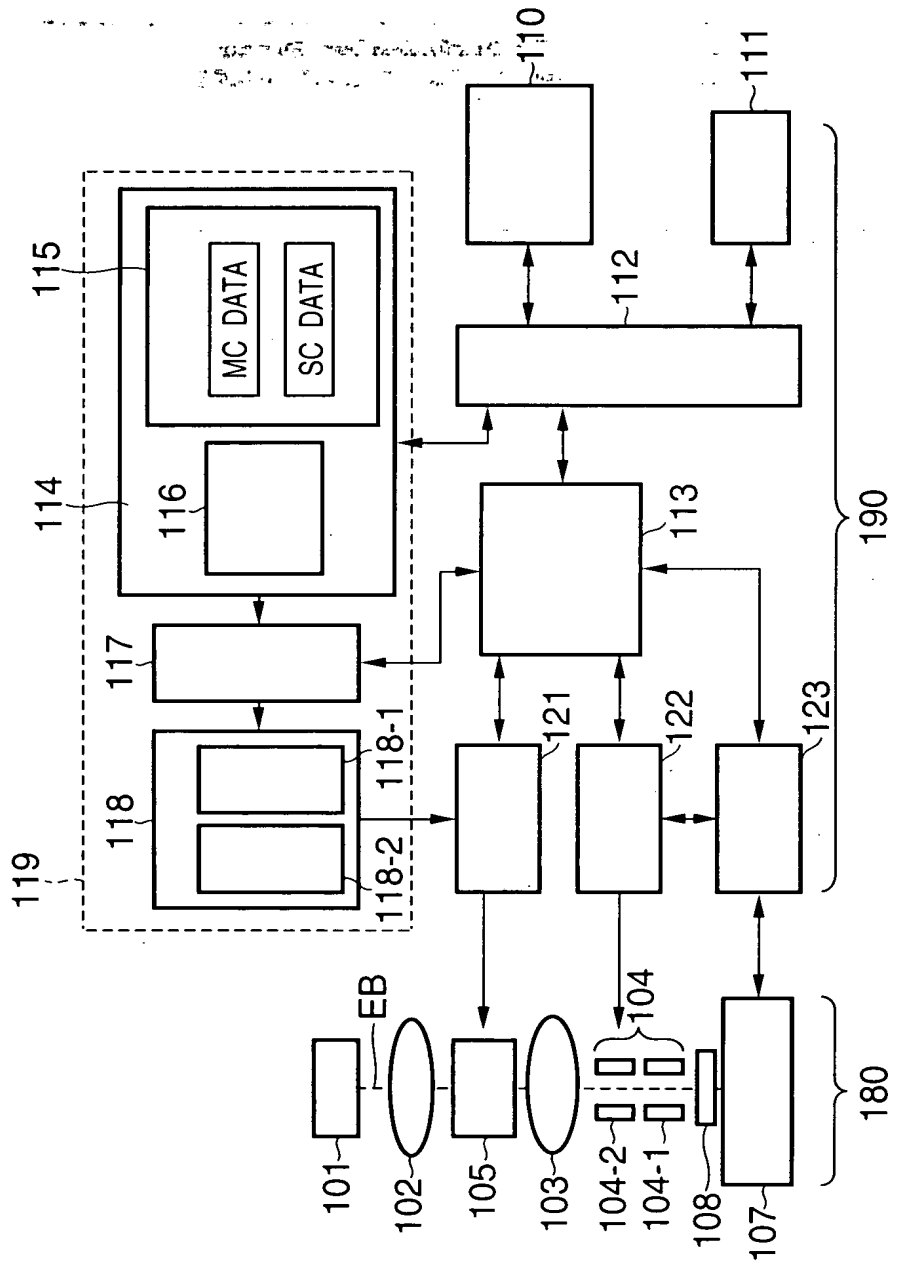
110
111
112
113
114
115
116
117
118
118-1
118-2
119
121
122
123
190
180
MC DATA
SC DATA
EB
101
102
103
104
104-1
104-2
105
107
108

FIG. 7

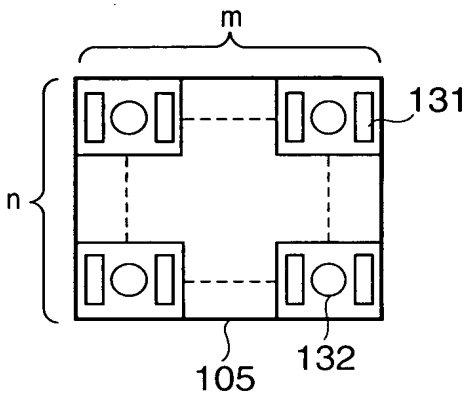

FIG. 8

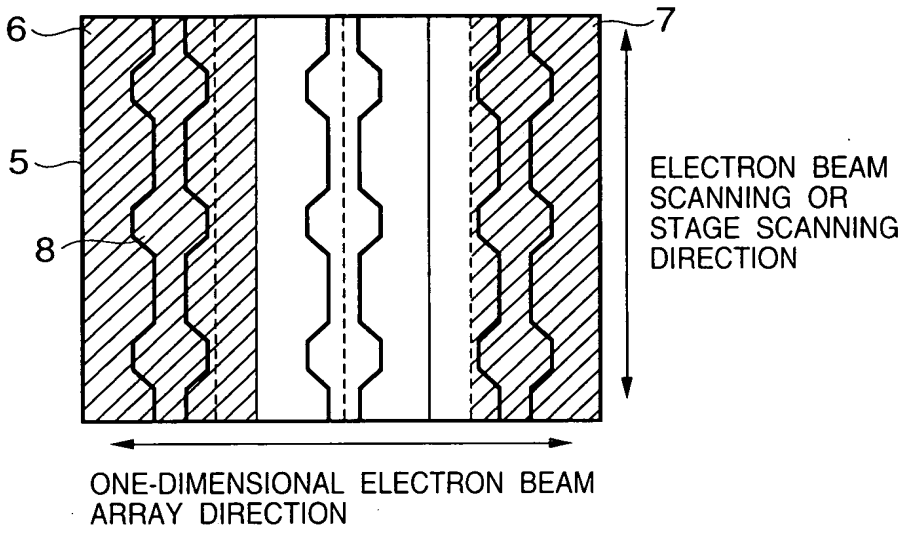
6
7
5
8
ELECTRON BEAM SCANNING OR STAGE SCANNING DIRECTION
ONE-DIMENSIONAL ELECTRON BEAM ARRAY DIRECTION

FIG. 9

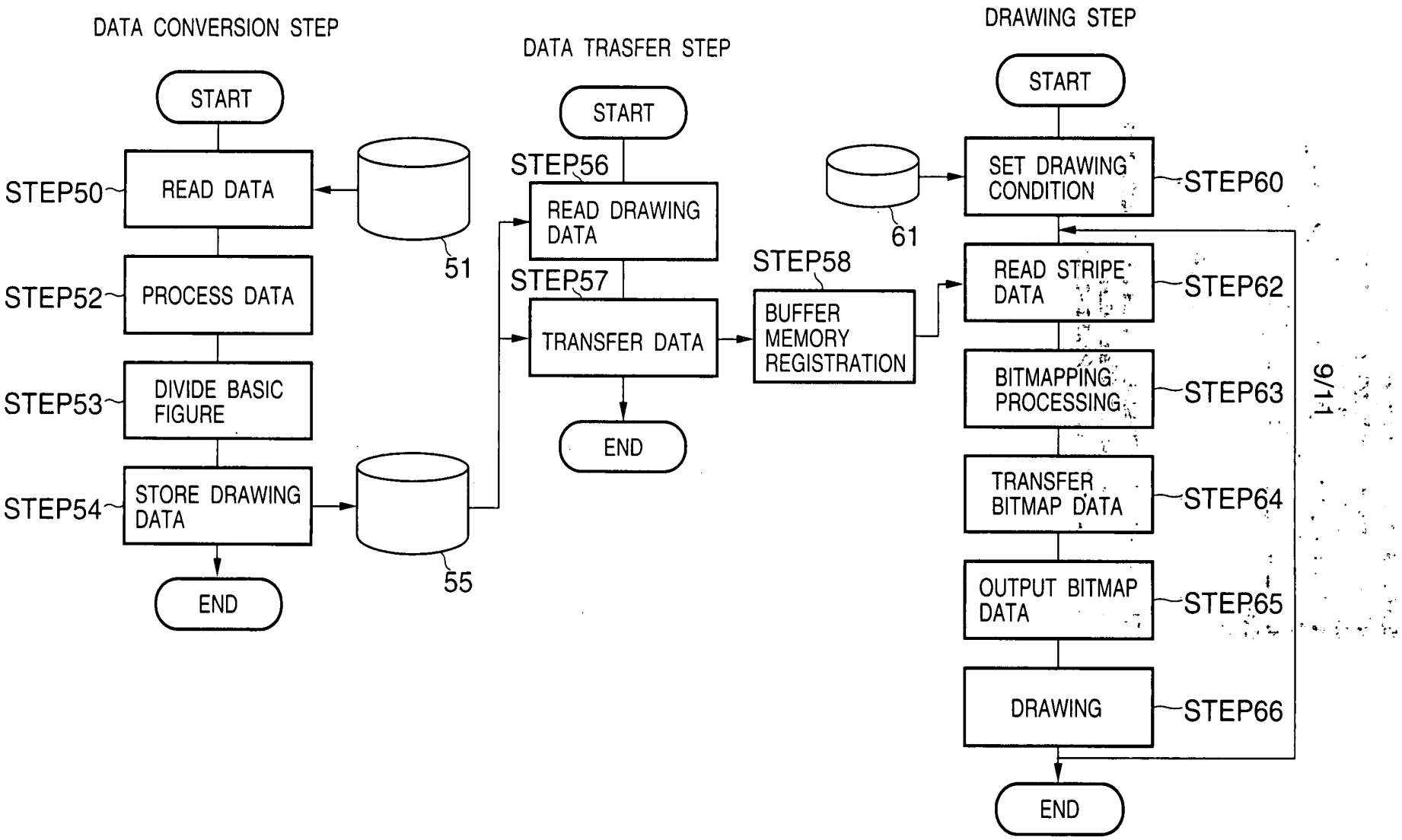
DATA CONVERSION STEP
START
STEP50
READ DATA
51
STEP52
PROCESS DATA
STEP53
DIVIDE BASIC FIGURE
STEP54
STORE DRAWING DATA
55
END
DATA TRASFER STEP
START
STEP56
READ DRAWING DATA
STEP57
TRANSFER DATA
END
STEP58
BUFFER MEMORY REGISTRATION
DRAWING STEP
START
61
SET DRAWING CONDITION
STEP60
READ STRIPE DATA
STEP62
BITMAPPING PROCESSING
STEP63
TRANSFER BITMAP DATA
STEP64
OUTPUT BITMAP DATA
STEP65
DRAWING
STEP66
END

FIG. 10

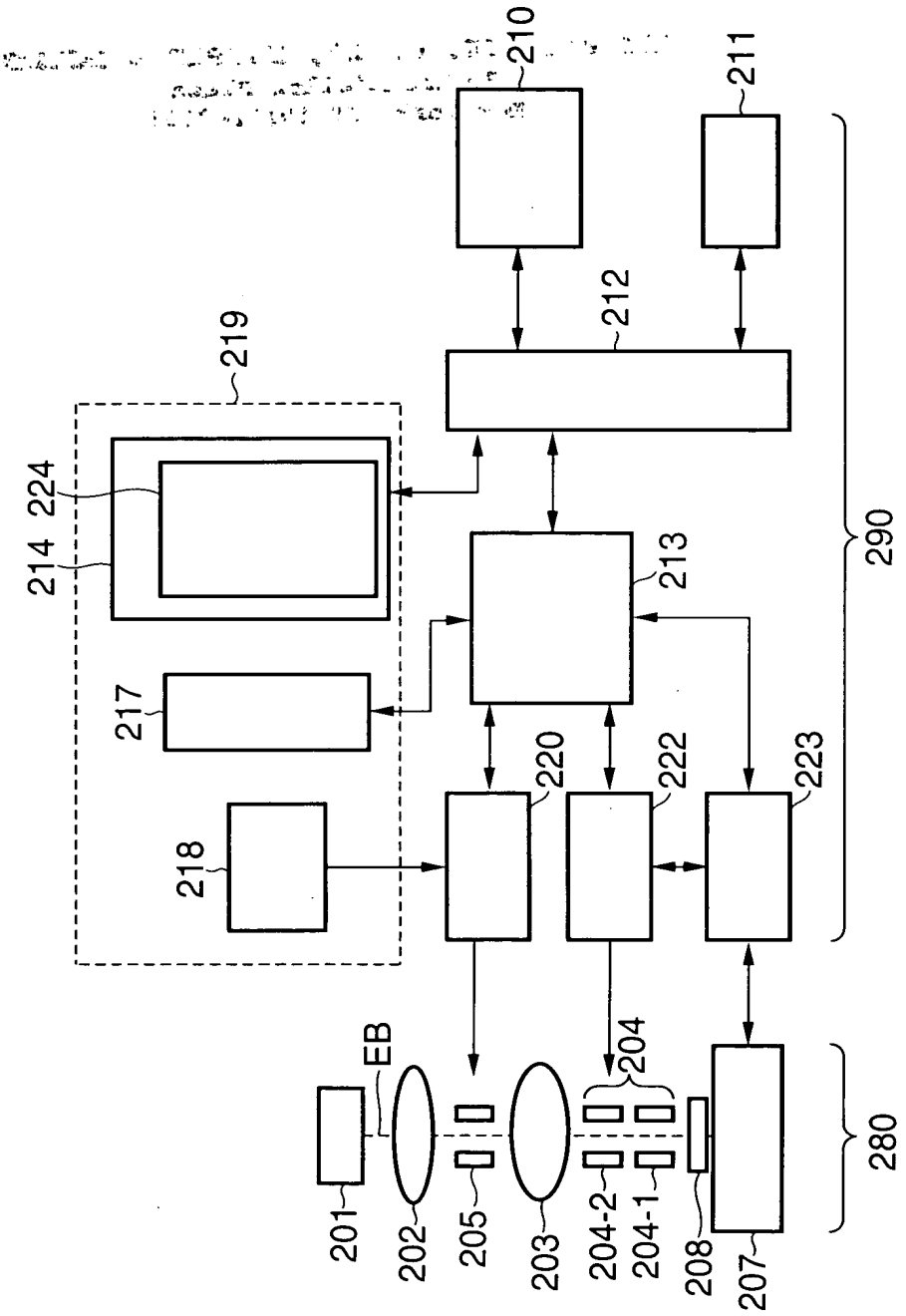
210
211
212
219
214
224
213
290
217
220
222
223
218
EB
204
280
201
202
205
203
204-2
204-1
208
207

FIG. 11A

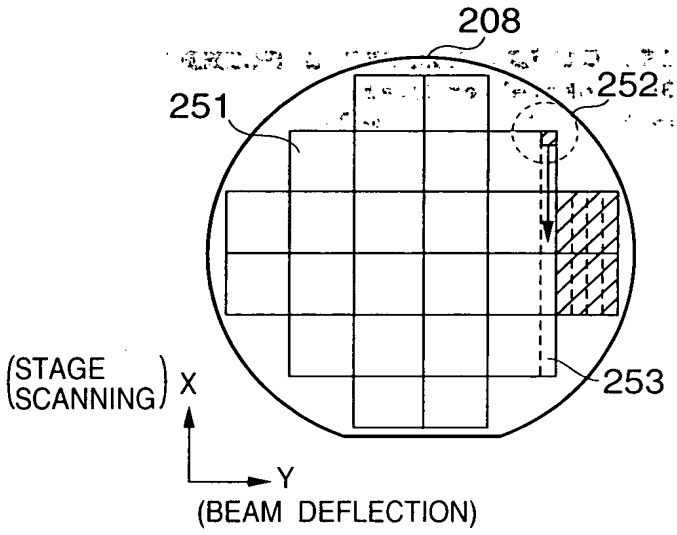

FIG. 11B

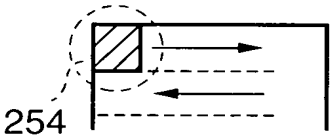

FIG. 11C